CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

SECRET
SECURITY INFORMATION

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COUNTRY	East Germany	REPORT	
SUBJECT	H_2O_2 Production at Leuna, Thuringia	DATE DISTR.	6 March 1953
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DATE OF INFO.		REQUIREMENT	25X1
PLACE ACQUIRED		REFERENCES	25X1

This is UNEVALUATED Information

THE SOURCE EVALUATIONS IN THIS REPORT ARE DEFINITIVE.
THE APPRAISAL OF CONTENT IS TENTATIVE.
(FOR KEY SEE REVERSE)

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[redacted]

[redacted] aluminum (99.99% pure) and V-2-A steel were satisfactory containers for storing concentrated H_2O_2 and concentrated HNO_3 at 0-25° C, but that NCT steel (containing 2% Cu and 2% Ti) had to be used for storing these products at 50° C. Tonka I and Tonka II were fuel oils which were made at Bruex, Czechoslovakia from the hydrogenation of brown coal. [redacted] they were designed for use as rocket fuels along with concentrated H_2O_2 or concentrated HNO_3 as an oxidizer. The ignition properties of these products were tested

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ARMY review completed.

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STATE	x	ARMY	x	NAVY	x	AIR	x	FBI		AEC		[redacted]	x

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(Note: Washington Distribution Indicated By "X"; Field Distribution By "#".)

25 YEAR RE-REVIEW

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in the laboratory in which Froelich, a chemist, worked.

2. 25X1

3.

the nitric acid equipment was dismantled by the Soviets there was no hydrogen peroxide production at Leuna and therefore no hydrogen peroxide equipment could have been removed./

the buildings for the manufacture of concentrated nitric acid and concentrated hydrogen peroxide were made from special steels./

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to prevent corrosion, special steels such as V-2-A, V-4-A, and V-46-A were used in the equipment and buildings producing concentrated nitric acid.

the Soviets 25X1
had dismantled the equipment and buildings made of special steels which were used in the production of concentrated hydrogen peroxide and concentrated nitric acid./

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The special steels dismantled by the Soviets were those used in the production of concentrated nitric acid. The nitric acid plant, removed for reparations, produced dilute nitric acid (30-60%) and concentrated nitric acid (93-95%).

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acid-resisting gaskets were required as sealing compounds in the manufacture of concentrated hydrogen peroxide./

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Acid-resisting gaskets are required between the joints of pipes carrying concentrated nitric acid and a mixture of nitric and sulphuric acid which was used for nitrating purposes.

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quartz containers would be most satisfactory for shipping hydrogen peroxide. Glass of low alkalinity or SCT-steel might also be used.

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A new nitric acid plant, which should be in production now, was to be located at the site of the former Leuna nitric acid plant.

4. [redacted] 25X1 ,some work had been done on the oxidation of methane or ethane and rapid cooling of the oxidation products on quartz surfaces to produce hydrogen peroxide.

5. [redacted] 25X1

6. [redacted] Tonka I and Tonka II which, as stated [redacted] was a hydrocarbon obtained in the hydrogenation of tar oils or other oil residues and was used as a rocket fuel. Leuna did not distill tar oils and did not make toluol, xylol, or xylidine. [redacted] Leuna also makes no aliphatic amines at this time. 25X1

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[redacted]